

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Withdrawn) A method for locating data in a data file, comprising:

determining the data unit to be located in the data file;

determining a type for the data unit,

when the type of the data unit is not Text,

selecting a different data unit as the location reference for the data unit;

generating the location description for the data unit, based on the type of the data unit and the position relationship between the data unit and the different data unit, the description including the type of the data unit, one or more location elements for locating the data unit;

each of the location elements including a combination of attributes so as to determine the position of the location element, the attributes including:

a. a base different data unit;

b. a from position in the base used as the location referring position for the location element;; and

c. a skip which represents the offset of the location element from the from position.

2. (Withdrawn) The method of claim 1 wherein the type is chosen from the group consisting of Text, SingleLine, MultiLine, Block and Iterator

3. (Withdrawn) The method of claim 1 wherein when generating the location description for the data unit, based on the type of the data unit and the position relationship between the data unit and the different data unit, and the description includes the type of the data unit, and at least one location elements for locating the data unit and chosen from the group consisting of Top, Bottom, Left and Right.

4. (Withdrawn) The method of claim 1 wherein each of the location elements includes a combination of attributes so as to determine the position of the location element, said attributes chosen from the group consisting of a base different data unit, a position in the base different data unit and used as the location referring position for the location element; and an offset of the location element from the base different data unit.

5. (Withdrawn) The method for locating data in a data file according to claim 1, characterized in that the base different data unit is the data unit having the type “Text” or any data unit the attributes of the location elements of which have been determined.

6. (Withdrawn) The method for locating data in a data file according to claim 1, characterized in that the attributes further include:

- a. an until representing location element stops at a markup;
- b. a before representing the offset of the location element stops before a markup;
- c. an after representing the offset of the location element stops after a

markup.

7. (Withdrawn) The method for locating data in a data file according to claim 1, characterized in that the from is the start position or the end position of the base.

8. (Withdrawn) An apparatus for locating data in a data file, comprising:

a data unit determination unit, a type determination unit, a location reference determination unit and a data unit location description generation unit,

said data unit determination unit determining the data unit to be located in the data file;

said type determination unit determining a type for the data unit, the type including “Text”, “SingleLine”, “MultiLine”, “Block” and “Iterator”;

when the type of the data unit is not “Text”,

a. said location reference determination unit selecting a different data unit as the location reference for the data unit;

b. said data unit location description generation unit generating the location description for the data unit, based on the type of the data unit and the position relationship between the data unit and the different data unit, the description including the type of the data unit, one or more location elements for locating the data unit and including “Top”, “Bottom”, “Left” and “Right”,

c. each of the location elements including a combination of attributes so as to determine the position of the location element, the attributes

including:

- i. “Base”, which is the different data unit;
- ii. “From”, which is a position in the “Base” and used as the location referring position for the location element;
- iii. “Skip”, which represents the offset of the location element from the “From”.

9. (Withdrawn) The apparatus for locating data in a data file according to claim 8, characterized in that the “Base” is the data unit having the type of “Text” or any data unit the attributes of the location elements of which have been determined.

10. (Withdrawn) The apparatus for locating data in a data file according to claim 8, characterized in that the attributes further include:

- a. “Until”, which represents the location element stops at a markup;
- b. “Before”, which represents the offset of the location element stops before a markup; and
- c. “After”, which represents the offset of the location element stops after a markup.

11. (Withdrawn) The apparatus for locating data in a data file according to claim 8, characterized in that the “From” is the start position or the end position of the “Base”.

12. – 15. (Canceled)

16. (Previously Amended) A data transformation apparatus, for transforming data in [[a]] source first data file files having [[a]] first format formats into data in [[a]] object second data file files having [[a]] second format formats, the data transformation apparatus comprising:

- (a). means for determining a data type and data location for ~~the~~ data in the original source data files;
- (b). means for determining correspondence between a format of the original source data files file and formats of the ~~objective~~ object data files;
- (c). means for determining locations of the ~~original~~ source data files based on location descriptions on one or more data units thereof; [.]
- (d). means for extracting the ~~original~~ source data files; and
- (e) means for transforming the extracted data into object files for output from the apparatus based on correspondence between data ~~units~~ files to be located and specific formats of the ~~objective~~ object data files [.]
- (f) means for outputting text object files as output.

17 - 19. (Canceled).

20. (Currently Amended) A data transformation method for transforming data in original source data files and having a first data format into data in ~~objective~~ object data files ~~and~~ having a second data format by the steps of:

- (a). determining a data type and data location for the data in the original data files;
- (b). determining correspondence between the original data files and formats of the objective object data files;
- (c). determining locations of the original data files based on location descriptions on one or more data units.
- (d). extracting the original data files; and
- (e) transforming the extracted data into output text object data files based on correspondence between data units to be located and specific formats of the objective object data files [.] and
- (f) outputting the text object data files.

21. (Previously Added) The method of claim 20 wherein the data type is one of “Text”, “SingleLine”, “MultiLine”, “Block” and “Iterator”.

22. (Canceled)